W. Alex Nelson

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| |  | | --- | | (713) 515-9452 • wan4403@tamu.edu | | 4151 Wellborn Rd bryan, tx 77801 |   **Education** | |
|  | **Texas A&M University**, College Station, TX May 2017  Bachelor of Science in Mechanical Engineering  Cumulative GPR: 3.1  **Related Coursework:**   |  |  |  | | --- | --- | --- | | Dynamics and Vibrations | Materials Science | Thermodynamics | | Computer Design Graphics | Mechanics of Materials | Fluid Dynamics | |
| **Technical Expertise**   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  |  |  | | --- | --- | --- | --- | | SolidWorks | Matlab | C++ | AutoCAD | | LabVIEW | C# | Javascript | HTML | |   **Work Experience**  **Energy Systems Laboratory**, College Station, TX June 2015-Present  Student Technician (20 hours/week)   * Developed professional software distributed to dozens of clients across the country * Created sorting algorithms for automated filtering and formatting of hundreds of millions of data points * Analyzed trends for anomalies that are used to determine appropriate solutions * Refactored existing code for substantial performance improvements * Attended biweekly graduate seminars discussing enhancements in HVAC technology   **Simply Electrical Solutions**, Houston, TX July 2014-August 2014  *Technician (70-75 hours/week)*   * Installed over 3000 new light fixtures in two different schools as a team * Experienced firsthand how much a streamlined team with quality leadership can accomplish under strict time constraints   **Xtra Light Manufacturing**, Houston, TX May 2013-July 2013  *Intern (15 hours/week)*   * Improved database and website code, shadowed audits and sales * Created proposals and updated lighting databases | |

**Relevant Experience**

**Formula SAE (Texas A&M Chapter)** August 2014-Present

* Assisted the senior design team with their construction of the dynamometer chassis
* Learned to utilize the SolidWorks program to visualize and stress-test projects
* Operated heavy machinery in our workshop to construct designs
* Completed safety training for the use of workshop machines

**National Aggie Scholar Ambassadors** September 2013-Present

* Mentored two freshmen to ease their transition into college
* Helped recruit incoming freshmen by planning and organizing social events and general meetings

**Champe Fitzhugh Honors Leadership Seminar** July 2013-August 2013

* Selected as one of thirty students in the class of 2017 for leadership training in Tuscan Italy
* Attended several leadership workshops that worked to improve our leadership skills in ways we may not have experienced before